COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

<table>
<thead>
<tr>
<th>MEETING DATE:</th>
<th>July 28, 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGENDA NUMBER:</td>
<td>11</td>
</tr>
<tr>
<td>FILE NUMBER:</td>
<td>14 - 064</td>
</tr>
<tr>
<td>ITEM:</td>
<td>Sprouse Culvert</td>
</tr>
</tbody>
</table>

**RECOMMENDATION:** Approve with 3 Stipulations

**APPLICANT:** Dale Sprouse  
13205 Jenkins St. NE  
Blaine, MN

**PURPOSE:** Culvert installation at 12880 Lexington Blvd, Blaine on County Ditch 59-6.

**LOCATION:** 12880 Lexington Blvd, Blaine on County Ditch 59-6.
APPLICABILITY:
1. Any work within or adjacent to a Public Ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses.
3. The lands and water that have been, or may be covered by the regional flood.
4. Highly erodible soils
5. Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.
6. Endangered, Threatened or Special concern species, elements of communities.

EXHIBITS:
1. Permit application, Signed 5-19-14, Received 5-20-14.

HISTORY & CONSIDERATIONS:
The applicant has an old culvert that is failing and wishes to replace it to have access to back of his property.

FINDINGS:
Ditches and Drainage: There is a public ditch on the property. The ditch is County Ditch 59-6. The ditch has not been inspected. There are approximately 20 acres of existing agricultural land affected by this ditch. The project site is tributary to County Ditch 59-6. The trend in land use for this drainage area is toward residential. There are flooding concerns downstream. The public ditch was last repaired in 1979.

Floodplain: There is no floodplain on the property according to FEMA. The District Atlas 14 model predicts the 100-year elevation for the subwatershed at 901.2 (NGVD 1929) feet.

Groundwater: It is unknown where surficial ground water is located and is not needed for this project. The site does not include groundwater sensitive areas. Information has not been provided to substantiate low floor elevations and is not needed.

Historic Sites: The proposed project does not include sites of historic or archeological significance.

Local Planning & Zoning: The proposed project is consistent with local planning and zoning. There is an approved local water plan.

Maintenance: The proposed project does include a ditch maintenance easement or utility line crossings. Property owners affected by changes in drainage have not been notified and have not acknowledged the changes proposed.

Soils & Erosion Control: Soils affected by the proposal are Lino and Isanti. Stabilizing vegetation is not proposed for disturbed areas within two weeks of rough grading.
Adjacent properties are not protected from sediment deposition. All wetlands, water bodies, ponds, infiltration basins and water conveyance systems are not protected from erosion and sedimentation. Project site is not greater than 1 acre; an NPDES permit is not required.

**Stormwater & Hydraulics:** The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation and is not required to do so for a culvert installation. Stormwater leaving the site is discharged into a well-defined receiving channel or pipe and routed to a public drainage system. Drainage sensitive uses do exist downstream from the proposed site. The rate of post development runoff from the site does not exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses.

**Water Quality:** Project does not include new impervious drainage areas greater than 1 acre. The proposal will not detrimentally affect the existing water quality of the receiving water. The proposal will not cause extreme fluctuations of water levels or temperature changes.

**Wetlands:** Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. No wetland impacts are proposed.

**Wildlife:** The proposed project does not include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

**Performance Escrow:** $2,825.00

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>Stormwater &amp; Hydraulics</th>
<th>1. Provide an as-built survey showing the pipe inverts and location. If the pipe moves along the alignment increase (if going to the south) or decrease (if going to the north) the grade by 0.05% from the 90+00 station.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The midpoint of the applicant’s property at 12880 Lexington is approximately 90+00 on the 8-9-85 District ditch plans for Ditch 59-6. The channel bottom at 90+00 is 893.80 (NGVD 1929) with a 0.05% slope. Station 90+00 is approximately 330’ upstream or south of where the ditch turns form a south to north alignment to an east to west alignment. The recommended culvert size is 36”. The installation tolerance for vertical control is +/- 0.1’.</td>
<td></td>
</tr>
</tbody>
</table>
Soils & Erosion Control: During pipe installation the District requires temporary erosion control. Permanent erosion control is required within 14 days of pipe installation.

2. Provide a temporary and permanent erosion control plan.

Escrows: $2,000 + (1.65 ac * $500) = $2,825.00

3. Receipt of escrows.

RECOMMENDATION: Approve with 3 Stipulations

Stipulations:
1. Receipt of escrows.
2. Provide an as-built survey showing the pipe invert and location. If the pipe moves along the alignment increase (if going to the south) or decrease (if going to the north) the grade by 0.05% from the 90+00 station.
3. Provide a temporary and permanent erosion control plan.